

I claim:

- 1 1. A watercraft lift apparatus, comprising:
2 a base;
3 a first pair of booms having a first pair of ends pivotally joined to said base to
4 rotate about a first axis and a boom extension projecting from said first pair of ends
5 thereof;
6 a second pair of booms having a first pair of ends pivotally joined to said base to
7 rotate about a second axis;
8 watercraft supports pivotally connected to said pairs of booms;
9 an actuator having a first end and a second end, the first end of which is pivotally
10 connected to said boom extension to rotate about a third axis that is offset from the first
11 axis; and
12 a load translation means, connected to said second pair of booms and pivotally
13 connected to said actuator at its second end, for translating extension and contraction of
14 the actuator to load balanced angular force acting on said second pair of booms about the
15 second axis.
- 1 2. A watercraft lift apparatus according to claim 1, wherein
2 said load translation means comprises a component swingably coupled to said
3 base.
- 1 3. A watercraft lift apparatus according to claim 1, further comprising:
2 a stop means for elastically stopping the lift at a fixed position.
- 1 4. A watercraft lift apparatus according to claim 3, wherein
2 said fixed position is over-center.
- 1 5. A watercraft lift apparatus according to claim 3, wherein

2 said stop means comprises a surface and an elastic stop, the stop at least partially
3 comprised of an elastic material, one of said surface and said stop affixed to at least one
4 pair of booms and the other of said surface and said stop affixed to the base.

6. A watercraft lift apparatus according to claim 1, further comprising:
 a means for adjusting the length of said pairs of booms thereby adjusting the
height of said watercraft supports above the base when the lift is in a raised position.

1 7. A watercraft lift apparatus according to claim 6, wherein
2 said means for adjusting the length of the booms is telescopic.

1 8. A watercraft lift apparatus, comprising:
2 a base;
3 a first pair of booms having a first pair of ends pivotally joined to said base to
4 rotate about a first axis;
5 a second pair of booms having a first pair of ends pivotally joined to said base to
6 rotate about a second axis;
7 watercraft supports pivotally connected to said pairs of booms;
8 an actuator having a first end and a second end, the first end of which is pivotally
9 connected to said base; and
10 a load translation means, connected to said second pair of booms and pivotally
11 connected to said actuator at its second end, for translating extension and contraction of
12 the actuator to load balanced angular force acting on said second pair of booms about the
13 second axis.